INTERNATIONAL SEARCH REPORT

Intermedial Application No
PCT/EP2004/013645

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01F17/00 H01L23/552 H01F27/28 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) H01F IPC 7 H01L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X ZHUANG Y ET AL: "Ferromagnetic RF 1,2,4,5, inductors and transformers for standard CMOS/BiCMOS" INTERNATIONAL ELECTRON DEVICES MEETING 2002. IEDM. TECHNICAL DIGEST. SAN FRANCISCO, CA, DEC. 8 - 11, 2002, NEW YORK, NY: IEEE, US, 8 December 2002 (2002-12-08), pages 475-478, XP010626086 ISBN: 0-7803-7462-2 A the whole document 9 -/--X Further documents are listed in the continuation of box C. Χ Patent family members are listed in annex. • Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 14 April 2005 22/04/2005 Name and mailing address of the ISA **Authorized** officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Stichauer, L Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Intermediation No
PCT/EP2004/013645

	PCT/EP2004/013645		
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
FERGEN I ET AL: "Soft ferromagnetic thin films for high frequency applications" JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, ELSEVIER, AMSTERDAM, NL, vol. 242-245, April 2002 (2002-04), pages 146-151, XP004358641 ISSN: 0304-8853 cited in the application the whole document	1,2,4,5, 9-11,13		
O'REILLY S ET AL: "NEW INTEGRATED PLANAR MAGNETIC CORES FOR INDUCTORS AND TRANSFORMERSFABRICATED IN MCM-L TECHNOLOGY" INTERNATIONAL JOURNAL OF MICROCIRCUITS AND ELECTRONIC PACKAGING, INTERNATIONAL MICROELECTRONICS & PACKAGING SOCIETY, US, vol. 23, no. 1, January 2000 (2000-01), pages 62-69, XP000932569 ISSN: 1063-1674 the whole document	1-9,11, 12		
US 6 593 841 B1 (MIZOGUCHI TETSUHIKO ET AL) 15 July 2003 (2003-07-15) claims 1,5 column 16, line 21 - column 17, line 48 column 35, line 17 - line 24 examples 9-12 figures 23,28,33,35,66	1,2,4,5, 8,9,11, 14-16		
EP 0 823 714 A (YAMAZAWA KIYOHITO; ALPS ELECTRIC CO LTD (JP)) 11 February 1998 (1998-02-11) claims 1,2,4,5 page 3, line 35 - line 37 page 8, line 12 - line 17	1,2,4,5,9-11,13		
	FERGEN I ET AL: "Soft ferromagnetic thin films for high frequency applications" JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, ELSEVIER, AMSTERDAM, NL, vol. 242-245, April 2002 (2002-04), pages 146-151, XP004358641 ISSN: 0304-8853 cited in the application the whole document O'REILLY S ET AL: "NEW INTEGRATED PLANAR MAGNETIC CORES FOR INDUCTORS AND TRANSFORMERSFABRICATED IN MCM-L TECHNOLOGY" INTERNATIONAL JOURNAL OF MICROCIRCUITS AND ELECTRONIC PACKAGING, INTERNATIONAL MICROELECTRONICS & PACKAGING SOCIETY, US, vol. 23, no. 1, January 2000 (2000-01), pages 62-69, XP000932569 ISSN: 1063-1674 the whole document US 6 593 841 B1 (MIZOGUCHI TETSUHIKO ET AL) 15 July 2003 (2003-07-15) claims 1,5 column 16, line 21 - column 17, line 48 column 35, line 17 - line 24 examples 9-12 figures 23,28,33,35,66 EP 0 823 714 A (YAMAZAWA KIYOHITO ;ALPS ELECTRIC CO LTD (JP)) 11 February 1998 (1998-02-11) claims 1,2,4,5		

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intel Ponal Application No
PCT/EP2004/013645

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6593841 B1	B1	15-07-2003	US	5583474 A	10-12-1996
			DE	4117878 A1	12-12-1991
			JP	3441082 B2	25-08-2003
			JP	4363006 A	15-12-1992
			JP	3382215 B2	04-03-2003
			JP	2001102235 A	13-04-2001
			JP	3540733 B2	07-07-2004
			JP	2001110639 A	20-04-2001
			KR	9606848 B1	23-05-1996
			US	6404317 B1	11-06-2002
			US	5801521 A	01-09-1998
EP 0823714 A	Α	11-02-1998	JP	10055916 A	24-02-1998
			DE	69710971 D1	18-04-2002
			DE	69710971 T2	04-07-2002
			ĒΡ	0823714 A1	11-02-1998
			KR	255485 B1	01-05-2000
			ÜS	6351204 B1	26-02-2002
			ÜŠ	6140902 A	31-10-2000